

# 1.3 (String) Methods

**Because you can't depend on how smart  
somebody is**

Programming 1/2

Code Starter Snippet:

`notes-1-3-stringmethods.py`

# Outline

1. Question
2. Donuts
3. String Methods
4. in



# Question

- What does this evaluate to?
- True or False ?
- `"rainy" == "Rainy"`
- `"rainy" == "rainy!"`

# People are not smart?

I said earlier on that you can't depend on how smart somebody is. When we make a solution using programming, whether it be a tool to use, or a game to play, people aren't really going to cooperate in the exact same way we want them too.

# An example

```
weather = input("What's the weather like?")  
  
if weather == "rainy":  
    ...  
else:  
    print("I see...")
```

# How do we deal with people?

“

Work smart, not hard.

”

- *Ubial, probably*

- We can anticipate how people are going to interact with our code.
- These things also come up during testing.

# Robust Code

Robust means not easily breakable.

We want to make our code donut proof.

We can use **string methods**.

# Consider this code

```
...
if weather == "rainy":
    ...
```

# Methods

Methods are **functions** that work on *objects*.

Note: We're not going to talk about objects right now.

```
<some object>.<method name>()
```

# (String) Methods Example

```
...  
if weather.lower() == "rainy":  
    ...
```

`<string>.lower()` - lower cases all the letters

# Useful Methods

- .strip() - remove whitespace characters off left and right
  - .strip("a") - removes 'a' off the left and right
- .split(" ") - splits a string into a list
  - .upper() - uppercase all letters
  - .lower() - same but lowercase
- .title() - capitalize all first characters

# Examples

```
# Ask the user for their name
name = input("What's your name? ")

# Remove whitespace from the str
name = name.strip()

# Print the output
print(f"hello, {name}")
```

```
# Ask the user for their name
name = input("What's your name? ")

# Remove whitespace from the str
name = name.strip()

# Capitalize the first letter of each word
name = name.title()

# Print the output
print(f"hello, {name}")
```

```
# Ask the user for their name
name = input("What's your name? ")

# Remove whitespace from the str and
#   capitalize the first letter of each word
name = name.strip().title()

# Print the output
print(f"hello, {name}")
```

```
# Ask the user for their name,  
#     remove whitespace from the str  
#     capitalize the first letter of each word  
name = input("What's your name? ").strip().title()  
  
# Print the output  
print(f"hello, {name}")
```

# More String Methods

[Python Documentation](#)

# Your Turn - McDoBot

Write a McDonald's bot that asks if you want fries with your meal.

Call it `work-mcdobot.py` .

It should accept Yes/yes or No/no as inputs, and reply appropriately depending on the answer.

If the user inputs anything else, it should repeat back their answer and say that it does not understand.

# McDoBot Examples

- ⚡ ~/B - Programming/ python3 work-mcbot.py  
Would you like fries with your meal? (Yes/No) YES  
Here's your meal with fries!
- ⚡ ~/B - Programming/ python3 work-mcbot.py  
Would you like fries with your meal? (Yes/No) yes  
Here's your meal with fries!
- ⚡ ~/B - Programming/ python3 work-mcbot.py  
Would you like fries with your meal? (Yes/No) no  
Here's your meal without fries!
- ⚡ ~/B - Programming/ python3 work-mcbot.py  
Would you like fries with your meal? (Yes/No) asdfsdf  
Sorry. I don't understand asdfsdf.
- ⚡ ~/B - Programming/ █